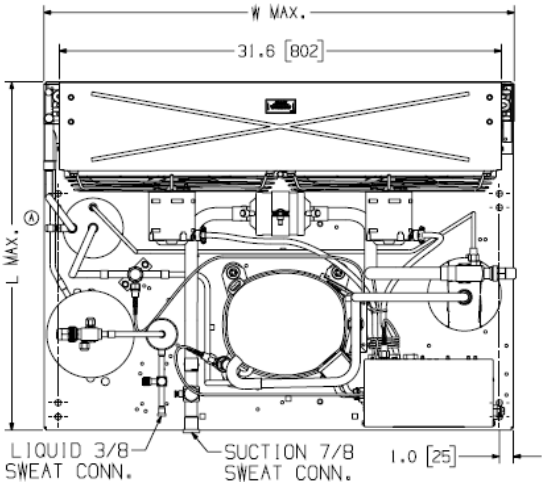
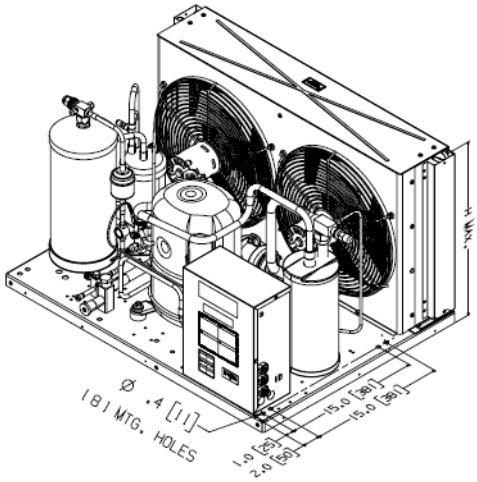
March 16, 2011

Tecumseh Compressor Company
Indoor Condensing Units

Model: AWG4520EXTXF **BoM: 2B3269-1** **R-22** **1 3/4 HP** **AIRCOOLED**





Model	Dimensions, inches				Line Connection*		Pumpdown	Air	Oil Ch	Gr. Wt.
	L	W	H	CH	Suction	Liquid	90 °F 90%	SCFM	Oz.	Lbs.
AWG4520EXTXF	25.0	33.5	19.5	14.7	7/8” S	3/8” S	19 lbs	1800	38.5	190
* F = Flare, S = Solder, RF or RS = Rotolock with Flare or Solder Connections, C = Compression Fitting										

		Ambient Temperatures											
Evaporator T		80°F			90°F			100°F			110°F		
°F	PSIG	BTUH	Watts	Cond T	BTUH	Watts	Cond T	BTUH	Watts	Cond T	BTUH	Watts	Cond T
10	32.8	9783	1443	95	8864	1469	104	7945	1496	112	7029	1520	121
15	37.7	11212	1516	97	10238	1548	106	9181	1582	114	8172	1612	123
20	43.0	12756	1587	99	11690	1628	108	10578	1668	116	9415	1707	125
25	48.8	14456	1656	102	13188	1711	110	11973	1760	118	10825	1803	127
30	54.8	16200	1728	104	14895	1791	112	13589	1850	121	12285	1904	129
35	61.5	18049	1802	107	16642	1876	115	15231	1946	123	13833	2010	131
40	68.5	19924	1881	109	18396	1968	117	16966	2046	125	15452	2122	133
45	76.0	21947	1960	112	20308	2061	120	18672	2157	127	17173	2239	135
50	84.0	24144	2036	115	22302	2159	122	20565	2268	130	18836	2370	137
55	92.6	26312	2125	117	24496	2254	125	22683	2376	132	20828	2493	140

60 Hz Performance

Return gas temp. 65°F, 5°F sub cooling

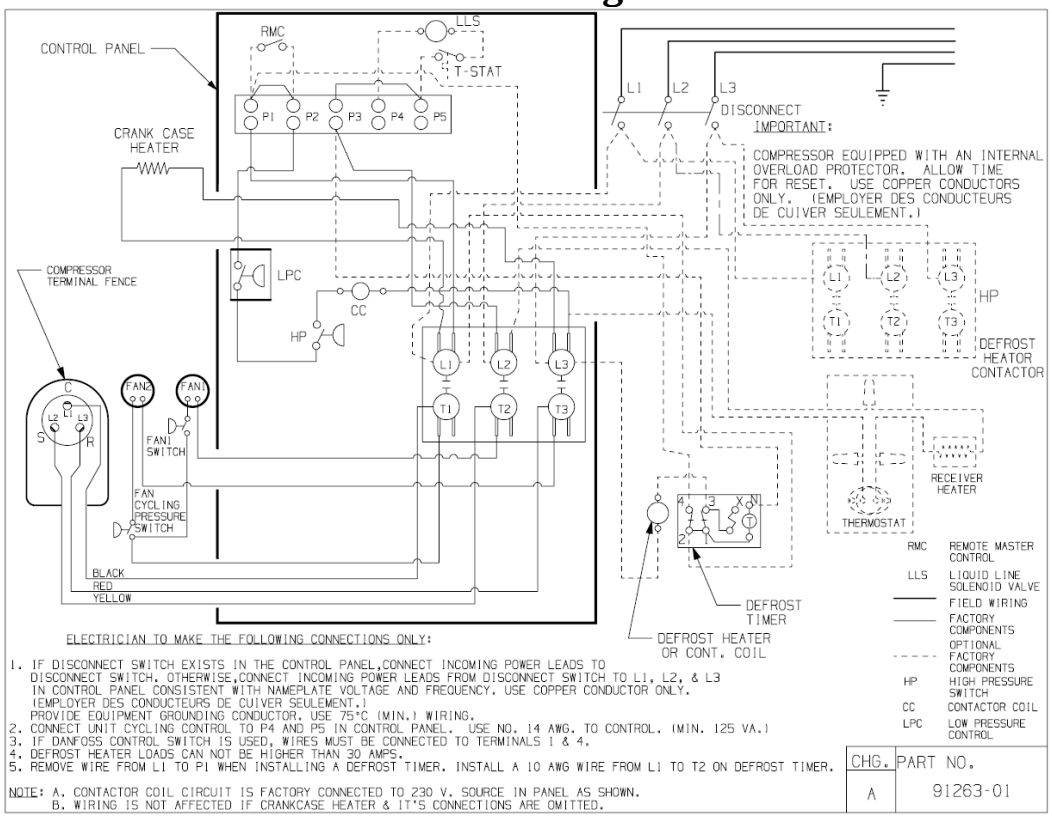
March 16, 2011

Specifications/ Parts:

Model	AWG4520EXTXF
Unit Bill of Material	2B3269-1
Nominal Volts-Hz-Ph	200-230-60-3
Refrigeration Range	20° to 55°
Design Pressure Low	150
Design Pressure High	450
Voltage Range	180 to 254
Min. Circuit Ampacity	9.2
Max. Fuse Size (amps)	15
Compressor Model	AWG5520EXT
Comp. Bill of Material	AW703RT-120-A2
Compressor RLA/LRA	6.1 / 51.0
Overload	INTERNAL
Relay	N/A
Run Capacitor	N/A
Run Capacitor Rating	N/A
Start Capacitor	N/A
Start Capacitor Rating	N/A
Contactor	91014
Unit Drawing	DGU1918-58
Wiring Diagram	91263-01

Fan Motor	810F050C20 (2)
Fan Motor RLA	0.7 Each
Fan Blade	51568-1 (2)
Fan Guard	70831 (2)
Fan Shroud	70648-2
High Pressure Switch	84095-1
Low Pressure Control	84026-2
Oil Separator *	704-00002
Condenser	50855-1
Fan Switch	84096-1
Fan Switch	84096-2
Receiver Tank	51082-1
Liquid Valve	31592
Liquid Filter *	70081
Sight Glass *	70084
Suction Valve *	31529-1
Rotolock Valve Gasket	30233
Discharge Valve *	56596
Suction Filter *	70082
Accumulator *	TK00042000
Crankcase Heater	91022-1
Defrost Timer *	N/A
Suction Shut Off Valve*	56500-K14
Liquid Shut Off Valve*	56500-K06
Shrader Valve Body*	56510
Valve Core*	56552
* = Equipped Units Only	

Electrical Diagram


CONTROL PANEL
RMC
LLS
T-STAT
P1 P2 P3 P4 P5
CRANK CASE HEATER
L1 L2 L3
DISCONNECT
IMPORTANT:
COMPRESSOR EQUIPPED WITH AN INTERNAL OVERLOAD PROTECTOR. ALLOW TIME FOR RESET. USE COPPER CONDUCTORS ONLY. (EMPLOYER DES CONDUCTEURS DE CUIVER SEULEMENT.)
COMPRESSOR TERMINAL FENCE
LPC
CC
HP
T1 T2 T3
DEFROST HEATOR CONTACTOR
C
FAN2
FAN1
FAN1 SWITCH
FAN CYCLING PRESSURE SWITCH
RECEIVER HEATER
THERMOSTAT
BLACK
RED
YELLOW
DEFROST TIMER
DEFROST HEATER OR CONT. COIL
RMC REMOTE MASTER CONTROL
LLS LIQUID LINE SOLENOID VALVE
FIELD WIRING
FACTORY COMPONENTS
OPTIONAL FACTORY COMPONENTS
HP HIGH PRESSURE SWITCH
CC CONTACTOR COIL
LPC LOW PRESSURE CONTROL
ELECTRICIAN TO MAKE THE FOLLOWING CONNECTIONS ONLY:
1. IF DISCONNECT SWITCH EXISTS IN THE CONTROL PANEL,CONNECT INCOMING POWER LEADS TO DISCONNECT SWITCH. OTHERWISE,CONNECT INCOMING POWER LEADS FROM DISCONNECT SWITCH TO L1, L2, & L3 IN CONTROL PANEL CONSISTENT WITH NAMEPLATE VOLTAGE AND FREQUENCY. USE COPPER CONDUCTOR ONLY. (EMPLOYER DES CONDUCTEURS DE CUIVER SEULEMENT.) PROVIDE EQUIPMENT GROUNDING CONDUCTOR. USE 75°C (MIN.) WIRING.
2. CONNECT UNIT CYCLING CONTROL TO P4 AND P5 IN CONTROL PANEL. USE NO. 14 AWG. TO CONTROL. (MIN. 125 VA.)
3. IF DANFOSS CONTROL SWITCH IS USED, WIRES MUST BE CONNECTED TO TERMINALS 1 & 4.
4. DEFROST HEATER LOADS CAN NOT BE HIGHER THAN 30 AMPS.
5. REMOVE WIRE FROM L1 TO P1 WHEN INSTALLING A DEFROST TIMER. INSTALL A 10 AWG WIRE FROM L1 TO T2 ON DEFROST TIMER.
NOTE: A. CONTACTOR COIL CIRCUIT IS FACTORY CONNECTED TO 230 V. SOURCE IN PANEL AS SHOWN.
B. WIRING IS NOT AFFECTED IF CRANKCASE HEATER & IT'S CONNECTIONS ARE OMITTED.
CHG. PART NO.
A 91263-01